

EMS and HIE in San Diego County EMSA HIE Summit November 19 -20, 2013

> Dan Chavez Executive Director



Plantage Pharmacies Pharmacies Pharmacies Pharmacies Pharmacies Pharmacies Pharmacies Pharmacies Patents and Caregivers Schools Schools Pharmacies Patents and Caregivers Schools Schools

San Diego 3.2 million people Second most populous County in the state, 5th most populous county in the U.S. Has a larger population than 20 of the 50 States 4,526 square miles 70 miles of coastline Geographic diversity: Coast, mountain, dessert 8th miles of international border - Busiest land-border crossing in the world 3 Military Facilities 18 federally recognized Indian Reservations 19 Acute Care Hospitals 115 clinics 9,000 physicians



Suite of Services

- Clinical Cloud
 - Community Clinical Exchange
 - Health-e-way Exchange
 - Direct Exchange
 - Radiology Imaging
 - Import Medical Device Data
 - Alert Notifications



Suite o





- Pre-hospital Cloud where data is available to electronically
 - Pre-hospital Record, ECG, & Images
 - Search Capability into the HIE
 - Case Management
- 911 Analytics
- Health Reporting
 - Immunization, Electronic Lab Reporting
 - Syndromic Surveillance
 - Alert Notifications



2013 On-Boarding Status



- · On Board
 - UCSD, VA, Kaiser, Rady
 - Clinics Mountain, Neighborhood, SDFC, Vista, Imperial Beach, Borrego, San Ysidro
- Testing
 - · Scripps, Sharp, DoD
 - Clinics Planned Parenthood, Clinicas, North County, St. Vincent de Paul, La Maestra, Indian Health Council, FHCSD



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EMS Hub History



- Initiated in 2010 as a joint project between UCSD School of Emergency Medicine and City of San Diego EMS
- Proposed in Beacon grant proposal to expand functionality
- · Beacon grant expanded functionality and utilization
- · UCSD gifted license to San Diego Health Connect



EMS Hub



- Intelligent/timely routing of EMS information to appropriate destination facility
 - Controlled access to EMS data in EMS Hub
 - Targeted push into destination system (e.g. referrals)
- Current Status
 - SSO from facilities and HIE SSO portal
 - Data directly from and to data sources
 - EMS patients not linked to HIE MPI



CAD 911 System Field Assessment Evaluation Care Verbal Report Written Rep

Pre-hospital HIE



- Pre-hospital data available to hospitals electronically
 - Pre-hospital record
 - · Electrocardiograms
- · EMS Agency/Vendor Partners
 - · SD City EMS
 - AMR
 - Fieldsaver



EMS Hub Jurisdictions



- San Diego
- Carlsbad
- Vista
- Escondido
- El Cajon
- Poway
- Oceanside

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- Coronado
- Julian
- Cuyamaca
- San Marcos
- Santee
- Lakeside

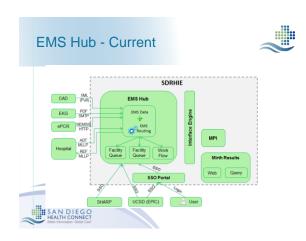
Hospitals On Board

- Rady
- Sharp
 - UCSD

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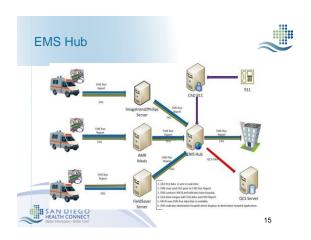


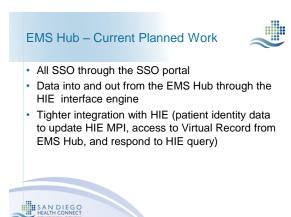
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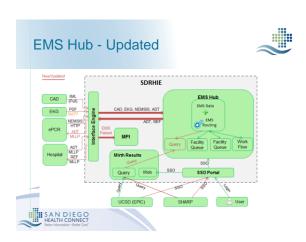


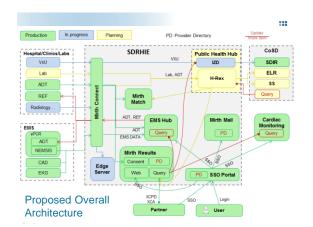
Percent Enhancements In Implemented QCS Integration – integration of first responder reporting to County of San Diego Additional functionality Runs matched EKGs matched CAD data created runs Additional incidents to the Hub

SAN DIEGO HEALTH CONNECT









Future Plans

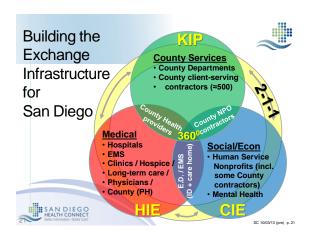


- EMS Hub workgroup beginning January 2014
- Future functionality
 - · Product Management
 - Street Sense and On Scene integration
 - · HIE integration
 - · BLS Module
 - · Additional pre-hospital medical device interfaces
 - · Public health reporting integration



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Why We are Optimistic

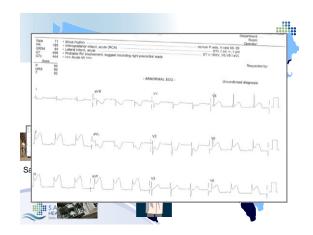


- · The conversation has started
- We have the relationships
- The technology is possible
- · We already see improvements
- · Agreement this is a marathon not a sprint
- We are committed



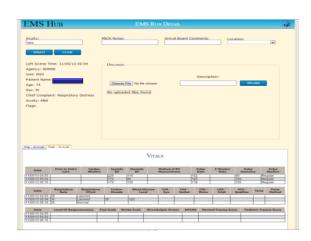
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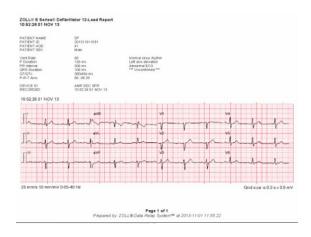


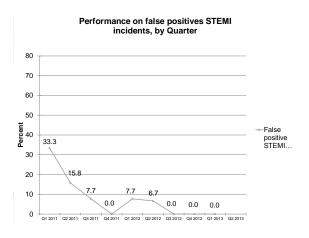


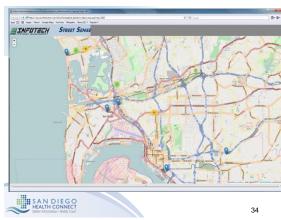


















- Top 1,000 offenders
- 89,679 visits • 87 visits per patient (median)
- 58% with a primary psych diagnosis (290-302, 306-316)
- 38% with a drug/alcohol diagnoses (303-305)
- 73% with a general pain diagnosis (338)
- 75% visited 5 or more hospitals
- · 32% visited hospitals in 3 or more counties



Frequent Freddie



- 354 visits in 2010
- · Visited 45 facilities in LA county
- · Self-pay/indigent payer status
- · Non-Hispanic White Male
- Age 29
- Admitted/transferred for continued care <8% of visits
- 40% of visits with a primary psych diagnosis (290-302, 306-316)
- 5% of visits with a drug/alcohol diagnoses (303-305)
- 38% of visits for a prescription refill encounter (V681)



Frequent Frannie



- 429 visits in 2010
- · Visited 40 facilities across 8 counties
- · Medi-Cal payer status
- Non-Hispanic Black Female
- Age 57
- Admitted/transferred for continued care <4% of visits
- 20% of visits pain-related (i.e. pain, migraine, abdominal, head/neck, or back symptoms)
- 38% of visits for a cellulitis and abscess (682)

